

PROGRAM

Annual Meeting Ohio Valley Society of Toxicology



October 14, 2022

University of Louisville
Kosair Charities Clinical and Translational Research Building
505 South Hancock Street
Louisville, Kentucky 40202



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AGENDA

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|------------------|---|
| 8:00 - 9:00 am | Registration, Continental Breakfast and Poster Set-up
Kosair Charities Clinical & Translational Research Building
(CTRB; Rooms 101-102 and lobby) |
| 9:00 - 9:10 am | Welcoming Remarks
Toni M. Ganzel, Dean
University of Louisville School of Medicine |
| 9:10 - 9:15 am | Meeting Logistics & Acknowledgement of Sponsors
Bert Watson, President of OVSOT |
| 9:15 - 9:30 am | Young Investigator Platform Presentation |
| 9:30 - 10:30 am | Doctoral Student Platform Presentations and Judging |
| 10:30 - 12:00 pm | Poster Presentations and Judging
CTRB Foyer |
| 12:00 - 1:30 pm | Lunch, Poster Viewing, & "Lunch with an Expert" |
| 1:30 - 2:30 pm | Postdoctoral Trainee Platform Presentations and Judging |
| 2:30 - 3:15 pm | Big Picture Science |
| 3:15 – 3:30 pm | Coffee Break |
| 3:30 - 4:30 pm | Keynote: Daniel J. Conklin, Ph.D., Professor of Medicine, Christina Lee Brown Envirome Institute, University of Louisville - <i>How Irritating! Electronic Cigarettes are not "95% Safer" than Combustible Cigarettes for the Cardiovascular System. Lessons Learned from Measurements of Biomarkers of Exposure and Biomarkers of Harm.</i> |
| 4:30 – 4:45 pm | Announcement of Awards and Closing |
| 5:00 – 6:00 pm | Student/Postdoc Mixer (CTRB Lobby) |



VISITOR INFORMATION

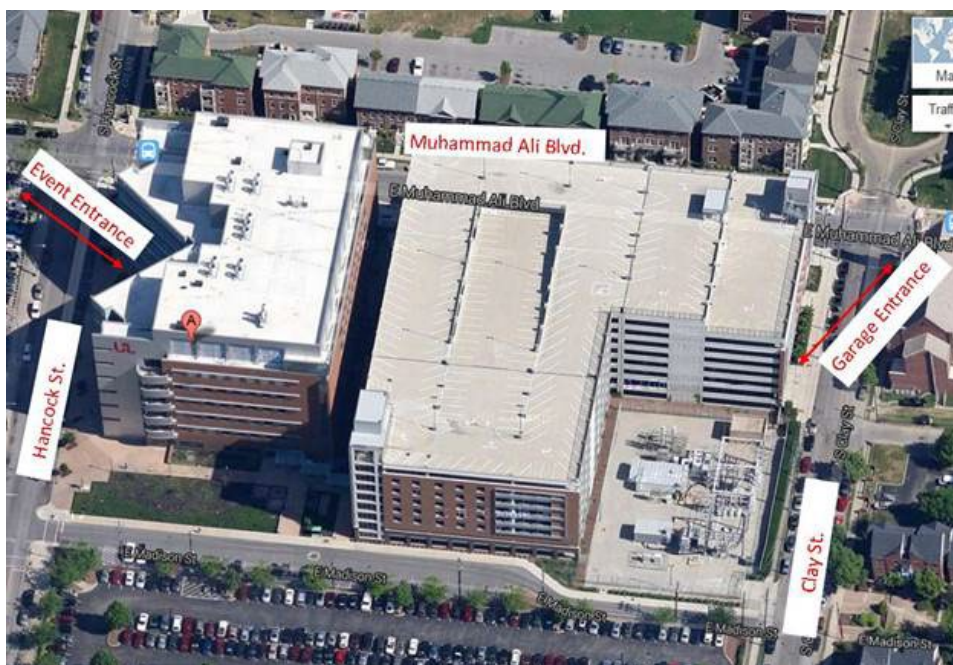


University of Louisville

Kosair Charities Clinical & Translational Research Building (KCCTRB)*
505 South Hancock Street
Louisville, KY 40202

**The Kosair Charities Clinical & Translational Research Building (KCCTRB) is a seven-story building located on the corner of Hancock Street and Muhammad Ali Boulevard. The KCCTRB is located on the east side of Hancock Street. The building has the UofL logo visible facing Hancock Street.*

Parking



Besides on-street metered parking available on both Hancock Street and Muhammad Ali Boulevard, there is public parking available within the 620 Parking Garage, which is located directly behind KCCTRB and can be accessed from Clay Street at the public lot entrance (Clay Street runs parallel to Hancock Street between Muhammad Ali and Chestnut Street). Please park on the bottom level only (Level 1). ***Please note: The student/employee permit parking entrance off Muhammad Ali Boulevard is for permit holders only.***



Area Hotels

Aloft Louisville downtown, 102 West Main Street, 40202
502-583-1888

AC Hotel by Marriott downtown, 727 E. Market Street, 40202
502-568-6880

Home2 Suites by Hilton downtown, 240 South Hancock Street
502-561-0460

Omni Louisville Hotel downtown, 400 S. 2nd Street
502-313-6664

The Seelbach Hilton downtown, 500 S. 4th Street
502-585-3200



PRESENTERS

Please see the 2022 OVSOT Meeting Abstract Book for abstracts of all posters and the presentations outlined on the following pages.



Young Investigator Platform Presentation

FS #1

Mayukh Banerjee, PhD
Assistant Professor
Department of Pharmacology and Toxicology
University of Louisville
Louisville, KY



“Zinc supplementation prevents mitotic accumulation in human keratinocyte cell lines upon environmentally relevant arsenic exposure”



Doctoral Student Platform Presentations

PHD #7

Ester Bolatimi, University of Louisville

“Effects of subchronic dietary zinc supplementation on high fat diet-induced non-alcoholic fatty liver disease”

PHD #9

Mariam, Habil, University of Louisville

“Double-edged sword nature of N-acetyltransferase polymorphisms”

PhD #18

Kennedy Walls, University of Louisville

“Hepatic metabolism of heterocyclic amines contributes to induction of glucose production and gluconeogenic gene expression in hepatocytes”



Postdoctoral Trainees Platform Presentations

PD #1

Lexiao Jin, University of Louisville

“Electronic Cigarette-derived Aerosols, Endothelial Dysfunction, and Platelet Activation in Mice: Role of Acrolein and Formaldehyde”

PD #4

Alexandria Nail, University of Louisville

“Chronic Arsenic Exposure Reduces ATM Pathway Activation in Human Keratinocytes”

PD #5

James Wise, University of Louisville

“Effect of N-Acetyltransferase Polymorphism on Metabolism and Genotoxicity of 4,4'-Oxydianiline (ODA)”



Big Picture Science Presentations

PHD #11

Luke Lu, Purdue University

“Novel Discovery of Copper in Modulating Neurogenesis in Adult Brain”

PHD #13

Idoia Meaza, University of Louisville

“The Unloading of Cohesin from Chromatin a New Mechanism for Hexavalent Chromium-Induced Carcinogenesis”

PHD #17

Samuel Vielee, University of Louisville

“A Mechanistic Approach to Categorizing Cr(VI) as a Gerontogen Using a Toxic Aging Coin”

PHD #19

Catlin Wilkerson, University of Louisville

“Alcohol Activates Dgat2 through $\alpha 4$ Nicotinic Cholinergic Receptors in Hepatocyte Models”

MS #1

Krishna Awasthi, Wright State University

“Impact of Topical Gemcitabine treatment on Human and Murine Skin”



Keynote Presentation

“How Irritating! Electronic Cigarettes are not “95% Safer” than Combustible Cigarettes for the Cardiovascular System. Lessons Learned from Measurements of Biomarkers of Exposure and Biomarkers of Harm.”



Daniel J. Conklin, Ph.D., is a Professor in the Division of Environmental Medicine at the University of Louisville (Louisville, KY). He has a Ph.D. in cardiovascular physiology from the University of Notre Dame (1995), and NIEHS-Postdoctoral Fellow training in cardiovascular toxicology at the University of Texas Medical Branch (Galveston, TX; Dr. Paul Boor, M.D., 1996-1998). In 2003, Dr. Conklin joined Drs. Aruni Bhatnagar, Ph.D. and Sanjay Srivastava, Ph.D., at the University of Louisville in the field of “*Environmental Cardiology*”. His current research of the cardiovascular toxicology of air pollution and tobacco products, specifically volatile organic compounds (VOCs), is funded primarily by a Superfund Center (P42) and a Tobacco Center of Regulatory Science (TCORS; U54) within the Christina Lee Brown Envirome Institute. He regularly serves in grant review for NIH (NHLBI, NIEHS) and the American Heart Association (AHA). He is currently an Associate Editor of *Toxicology and Applied Pharmacology* (2007-present) and an Editorial Board member of *Cardiovascular Research* and other journals. Dr. Conklin is an author/co-author of over 135 publications including peer-reviewed articles, book chapters, and invited reviews. He is a member of the American Physiological Society (APS), AHA, and the Society of Toxicology (SOT; since 2001) where he is a Past-President of the Cardiovascular Toxicology Specialty Section and the Ohio Valley Regional Chapter of SOT.

email: dj.conklin@louisville.edu;

webpage: <https://louisville.edu/envirome/research/laboratories/conklin-laboratory>



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